

## TWO NEW SPECIES OF ACTINA FROM CHINA (DIPTERA, STRATIOMYIDAE)

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**Abstract** Two new species of *Actina* from China are described: *A. apiciflava* sp. nov. and *A. fanjingshana* sp. nov. .

**Key words** Diptera, Stratiomyidae, *Actina*, new species, China.

*Actina* Meigen is distributed in the Holarctic and Oriental regions with 16 known species. It is characterized by the elongated scape, scape and pedicel nearly as long as the flagellum, and palpus well developed and 2-segmented (Yang and Nagatomi, 1992). The Palearctic and Oriental species were studied mainly by Frey (1961), Nagatomi and Tanaka (1969), Yang and Nagatomi (1992). The Chinese species were reviewed by Yang and Nagatomi (1992). Here two new species are added to the fauna of China. The types are deposited in the Entomological Museum of China Agricultural University (CAU), Beijing.

### 1 *Actina apiciflava* sp. nov. (Figs. 1-2)

Male. Body length 5.9 mm, wing length 5.0 mm.

Head black, but frons and vertex including ocellar tubercle more or less shining metallic green. Eyes distinctly separated, reddish brown. Hairs on head dark brown except ventral surface with pale hairs; hairs on face, frons and vertex rather long; eyes short haired. Antenna black; scape and pedicel with black hairs. Proboscis pale yellow with blackish hairs; palpus black with black hairs.

Thorax black, but mesonotum and scutellum shining metallic green. Humeri and postalar calli dark brown. Hairs on thorax pale except mesonotum with several long dark brown hairs on mid-posterior area. Legs yellow, except coxae and trochanters black, hind femur dark brown with yellow apex (extreme tip also dark brown), fore tibia brown with yellow base, hind tibia entirely blackish, fore tarsus dark brown, mid and hind tarsi dark brown apically. Hind tarsomeres 1-2 weakly thickened. Hairs on legs pale except tibiae and tarsi with blackish hairs. Wing hyaline; stigma dark brown; veins dark brown. Squama dark yellow with brown hairs. Halter pale yellow with dark brown base.

Abdomen dark brown, tinged metallic green. Hairs on abdomen blackish. Male genitalia: tergite 9 wider than long, with large basal incision; gonocoxal dorsal

bridge very large; gonostylus with distinct inner lobe; aedeagus with three acute lobes, median lobe distinctly shorter than lateral lobes.

Female. Unknown.

Holotype ♂, Guizhou, Mt. Fanjing, Jinding, 2100-2200 m, 31 May 2002, YANG Ding.

Etymology. The specific name refers to the yellow apex of the hind femur.

Remarks. This new species is somewhat similar to *A. autila* Yang et Nagatomi, but it may be distinguished from the latter by all the coxae black, hind femur dark brown with the yellow apex and aedeagus with the acute median lobe.

### 2 *Actina fanjingshana* sp. nov. (Figs. 3-4)

Male. Body length 5.2-5.4 mm, wing length 4.0-4.2 mm.

Head black, but frons and vertex including ocellar tubercle more or less shining metallic green. Eyes distinctly separated, reddish brown. Hairs on head dark brown except postero-ventral surface with pale hairs; hairs on face, frons and vertex rather long; eyes short haired. Antenna black except flagellum blackish; scape and pedicel with black hairs. Proboscis pale yellow with blackish hairs; palpus black with black hairs.

Thorax black, but mesonotum and scutellum shining metallic green. Humeri and postalar calli dark brown. Hairs on thorax pale except mesonotum with several long dark brown hairs on antero-lateral and mid-posterior areas. Legs yellow, except coxae and trochanters blackish; hind femur with extreme tip dark brown, hind tibia dark brown with a sub-basal brownish yellow ring; fore tarsus entirely dark brown, mid and hind tarsi dark brown apically. Hind tarsomeres 1-2 weakly thickened. Hairs on legs blackish except coxae with pale hairs. Wing nearly hyaline; stigma dark brown; veins dark brown. Squama dark yellow with brown hairs. Halter pale yellow with dark yellow base.

Abdomen dark brown, tinged metallic green. Hairs

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on abdomen blackish. Male genitalia: tergite 9 nearly as long as wide, with large basal incision; gonocoxal dorsal bridge small; gonostylus with distinct inner lobe acute apically; aedeagus with three obtuse lobes equal in length, lateral lobe wider than median lobe.

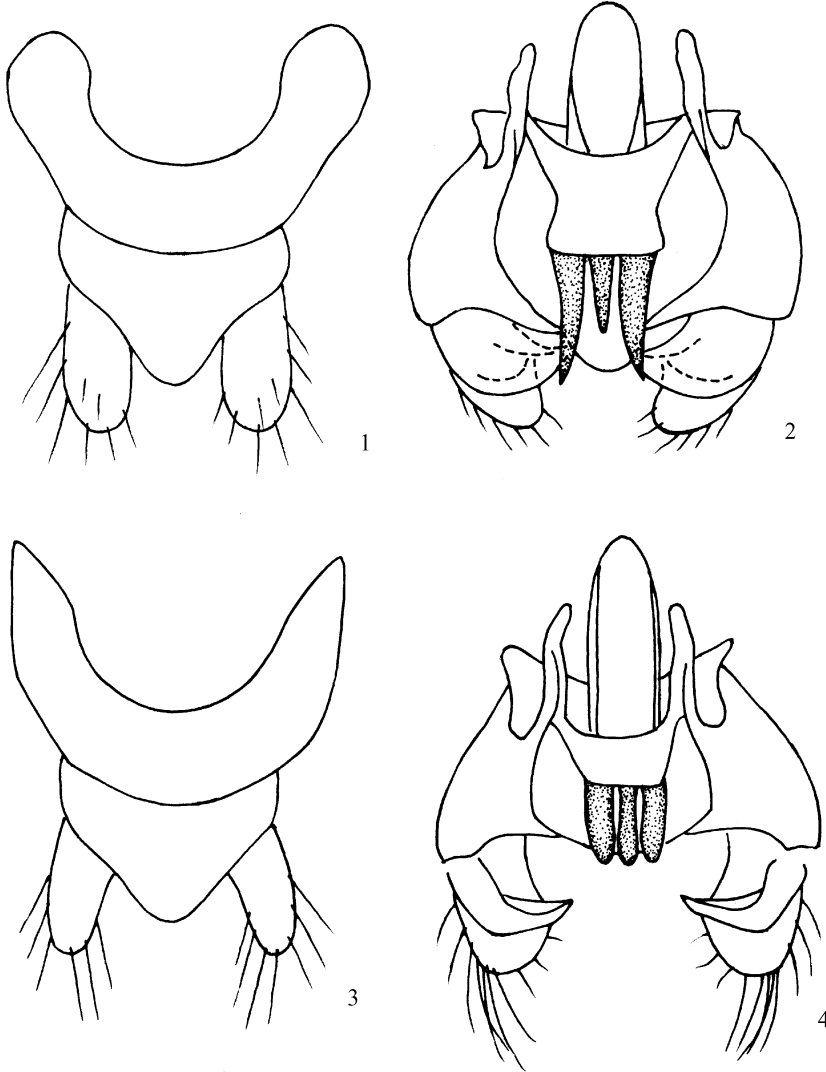
Female. Body length 5.3-5.5 mm, wing length 4.8-5.0 mm. Similar to male, but abdominal tergites 2-3 each with one small yellow median spot, all coxae yellow, hind tibia brownish yellow except narrow base and wide apex.

Holotype ♂, Guizhou, Mt. Fanjing, Jinding,

2100-2200 m, 31 May 2002, YANG Ding. Paratypes: 5 ♂♂, 4 ♀♀, same data as holotype.

Etymology. The specific name refers to the type locality.

Remarks. This new species is similar to *A. spatulata* Yang & Nagatomi, but it may be distinguished from the latter by the hind tibia dark brown with a subbasal brownish yellow ring, gonostylus with the short inner lobe and the gonocoxal ventral fused portion with a V-shaped incision at base.



Figs. 1-2. *Adina apiaflava* sp. nov. (male). Figs. 3-4. *Adina fanjingshana* sp. nov. (male). 1, 3. Tergites 9-10 and cerci, dorsal view. 2, 4. Genital capsule, dorsal view.

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中国星水虻属二新种 (双翅目, 水虻科)

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摘 要 记述我国星水虻属 2 新种, 即黄端星水虻 *Actina apiciflava* sp. nov. 和梵净山星水虻属 *Actina fanjingshana* sp. nov.。模式标本保存在中国农业大学昆虫博物馆。

- 1 黄端星水虻, 新种 *Actina apiciflava* **sp. nov.** (图 1~ 2)  
新种与尖突星水虻 *A. acutula* Yang *et* Nagatomi 近似, 但足所有基节黑色, 后足腿节暗褐色且端部黄色, 阳茎中叶末端尖。  
正模 ♂, 贵州梵净山金顶, 2 100~ 2 200 m, 2002-05-31, 杨定。

关键词 双翅目, 水虻科, 星水虻属, 新种, 中国.  
中图分类号 Q969. 447. 5

- 词源: 新种意指后足腿节端部黄色。
- 2 梵净山星水虻, 新种 *Actina fanjingshana* **sp. nov.** (图 3~ 4)  
新种与勺形星水虻 *A. spatulata* Yang *et* Nagatomi 近似, 但后足基节有黄褐色亚端环, 生殖基节有短的内叶, 生殖基节腹面愈合部基部呈 V 型凹缺。  
正模 ♂, 贵州梵净山金顶, 2 100~ 2 200 m, 2002-05-31, 杨定。副模: 5 ♂♂, 4♀♀, 同正模。  
词源: 新种以模式产地命名。

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